JOURNAL OF ALLOYS AND COMPOUNDS VOLUME 199, NUMBERS 1–2, SEPTEMBER 10, 1993

Contents

Letters

Giant magnetoresistance in polycrystalline $SmMn_2Ge_2$ L1
J.H.V.J. Brabers, K. Bakker, H. Nakotte, F.R. de Boer (Amsterdam, Netherlands), S.K.J. Lenczowski and K.H.J. Buschow (Eindhoven, Netherlands)

Zur Existenz des $CaFe_2O_4$-Typs von Verbindungen der Zusammensetzung $NaA^{3+}M^{4+}O_4$. Röntgenstrukturanalysen von $NaFeTiO_4$ und $Na_{0.7}(Fe,Al)_{0.7}Ti_{1.3}O_4$ L5
Hk. Müller-Buschbaum und D. Frerichs (Kiel, Deutschland)

Zur Kenntnis eines Magnetoplumbits mit Sn^{4+}: $SrSnFe^{2+}Fe^{3+}_{10}O_{19}$ L9
P. Sonne und Hk. Müller-Buschbaum (Kiel, Deutschland)

Regular Papers

In situ high resolution electron microscopy observation of electron-irradiation-induced martensitic transformation in a $Ni_{63}Al_{37}$ alloy 1
S. Muto (Osaka, Japan) and D. Schryvers (Antwerp, Belgium)

Système ternaire thallium–étain–tellure
III. Etude du quadrilatère SnTe–Tl_4SnTe_3–Tl_5Te_3–Te 7
E. Dichi (Châtenay-Malabry, France), G. Kra, R. Eholie (Abidjan, Côte d'Ivoire) and B. Legendre (Châtenay-Malabry, France)

Système ternaire thallium–étain–tellure
IV. Etude du pentagone SnTe–Sn–Tl–Tl_5Te_3–Tl_4SnTe_3 21
E. Dichi (Châtenay-Malabry, France), G. Kra, R. Eholie (Abidjan, Côte d'Ivoire) and B. Legendre (Châtenay-Malabry, France)

Mg_3RuH_6, a complex hydride containing two types of hydrogen atoms differing in their bonding 47
W. Bronger, K. Jansen and G. Auffermann (Aachen, Germany)

Thermodynamic analysis and calculation of the Cr–Mo–C system 53
C. Qiu (Stockholm, Sweden)

Anomalous temperature dependence of magnetization in $Sm_{0.6}Dy_{0.4}Fe_2$ quasi-binary intermetallic compounds 61
N.V. Mushnikov, V.S. Gaviko and A.V. Korolyov (Ekaterinburg, Russian Federation)

Structure and magnetic properties of the $UNi_{10-x}Fe_xSi_2$ system and ^{29}Si nuclear magnetic resonance in $UNi_{10}Si_2$ . . . 67
W. Suski, K. Wochowski, A. Zygmunt, J. Janczak, B. Nowak, K. Niedźwiedź and O.J. Żogał (Wrocław, Poland)

Study of ZrB_2 (B ≡ Mn, V, Cr) intermetallic compounds by laser microprobe mass analysis 73
E. Magomedbekov, A. Krupentshenko (Moscow, Russian Federation) and G. Sicking (Münster, Germany)

Distribution of plutonium, americium, and several rare earth fission product elements between liquid cadmium and LiCl–KCl eutectic 77
J.P. Ackerman and J.L. Settle (Argonne, IL, USA)

Phase transition behaviour and corrosion resistance of $Nd_{2.5}Fe_{13}CoC_{1.425}B_{0.075}$ and related compounds 85
Ch. Hellwig and K. Girgis (Zürich, Switzerland)

Long-term thermal cycling studies on $LaNi_{5.2}$ 93
D. Chandra, S. Bagchi, S.W. Lambert, W.N. Cathey (Reno, NV, USA), F.E. Lynch (Littleton, CO, USA) and R.C. Bowman, Jr. (Azusa, CA, USA)

The influence of Si and Ge on the hydrogen sorption properties of the intermetallic compound $ZrCr_2$ 101
A. Drašner and Ž. Blažina (Zagreb, Croatia)

Preparation, formation kinetics, and properties of polycrystalline $Nd_{1.85}Ce_{0.15}CuO_{4-y}$ obtained from a sol–gel precursor 105
R.F. Jardim (São Paulo, Brazil), L. Ben-Dor (Jerusalem, Israel) and M.B. Maple (La Jolla, CA, USA)

Eine neue Verbindung im System Rubidium–Gold: Synthese und Struktur von Rb_3Au_7 115
U. Zachwieja (Dortmund, Deutschland)

Elsevier Sequoia

Formation of nominal Ni amorphous phase by mechanical milling and leaching 119
S.A. Makhlouf (Assiut, Egypt), K. Sumiyama and K. Suzuki (Sendai, Japan)

Nanocrystalline powder formation during mechanical alloying of W and Si 125
B. Bokhonov (Novosibirsk, Russian Federation), E. Ivanov (Groave City, OH, USA) and V. Boldyrev (Novosibirsk, Russian Federation)

Tetragonal Zr_2CoD_5 with filled Al_2Cu-type structure and ordered deuterium distribution 129
F. Bonhomme, K. Yvon (Geneva, Switzerland) and M. Zolliker (Villigen, Switzerland)

Thermodynamic prediction of the glass-forming range for electrodeposited $Cr_{1-x}C_x$:H alloys 133
R.-Y. Tsai and S.-T. Wu (Hsinchu, Taiwan)

Standard molar Gibbs free energy of formation of URh_3(s) 141
R. Prasad, Y.S. Sayi, J. Radhakrishna, C.S. Yadav, P.S. Shankaran and G.C. Chhapru (Bombay, India)

Thermal conductivity of $REIn_3$ (RE = Tb, Dy, Tm, Lu) single crystals 145
J. Mucha, A. Jeżowski, A. Czopnik, H. Misiorek and Z. Kletowski (Wrocław, Poland)

Zwei Oxometallate mit Melilith-Struktur: $Nd_2SiBe_2O_7$ und $Ho_2SiBe_2O_7$ 151
C. Müller und Hk. Müller-Buschbaum (Kiel, Deutschland)

Hydrogen sorption peculiarities in FeTi-type Ti–Fe–V–Mn alloys 155
S.V. Mitrokhin, V.N. Verbetsky, R.R. Kajumov (Moscow, Russian Federation), H. Cunmao and Z. Yufen (Beijing, China)

Surface analysis of a Ti–Ni–B hydrogen storage electrode 161
D. Song, X. Gao, Y. Zhang, D. Lin, Z. Zhou, G. Wang and P. Shen (Tianjin, China)

Thermodynamic investigation of the Pd–Pt–Ge ternary alloys at high temperature 165
R. Lbibb and R. Castanet (Marseille, France)

Oxydation des alliages TiZr sous air et sous oxygène
I: Comportement de l'alliage $Ti_{52}Zr_{48}$ en fonction de la température entre 500 et 800 °C 171
I. Halley-Demoulin, D. Ciosmak et M. Lallemant (Dijon, France)

Investigations on electronically conducting oxide systems XXVII: Phase formation and electrical properties in the series $M_xCoMn_{2-x}O_4$ (M = Li, Zn) and $Li_xCo_{3/2-x/2}Mn_{3/2-x/2}O_4$ 181
A. Feltz, J. Leuthäusser and L. Neupert (Jena, Germany)

An electrochemical investigation of the thermodynamic properties of lead in liquid-tellurium-saturated PbSe–PbTe solid solutions 189
M. Shamsuddin, A. Nasar and T.K.S.P. Gupta (Varanasi, India)

Magnetic and transport properties of UCuGa, U_2CuGa_3 and UAuGa 193
V.H. Tran, R. Troć and D. Badurski (Wrocław, Poland)

Growth kinetics of Co–Zn intermediate phase layers 197
G.P. Vassilev and S. Budurov (Sofia, Bulgaria)

Ein Beitrag zur Synthese und Kristallstruktur eines gemischtvalenten Bariumoxotitanats: $Ba_2Ti_{12}^{3+}Ti^{4+}O_{22}$ 203
S. Möhr und Hk. Müller-Buschbaum (Kiel, Deutschland)

Phase diagram of the Ir–Sb system on the antimony-rich part 207
T. Caillat, A. Borshchevsky and J.-P. Fleurial (Pasadena, CA, USA)

Erratum 211

Author Index 213

Subject Index 215